"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

Bystryakov, Yu. K.

BYSTRYAKOV, Yu.K., inzh.

Some shortcomings of central control of power systems. Elek.sta. 29 no.1:8-10 Ja '58. (MIRA 11:2)
(Electric power distribution)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

KONYAKHINA, M.A.: ANDREYEVA, V.I.: BYSTRYAKOVA, L.V., KUSHINOVA, G.A.: SHIRNOVA, A.I.

Clinical characteristics of dysentery in young children. Pediatriia no.2:Mr-Ap '55. (MLRA 8:8)

1. Iz kafedry infetskonnykh bolezney u detey (zav.-prof. M.G. Danilevich) Leningradskogo pediatricheskogo meditsinskogo instituta (dir.-prof. N.T. Shutova) i Detskoy infektsionnoy bol'nitsy Leninskogo rayona (glavnyy vrach A.M. Belyayeva)
(DYSENTERY, BACILLARY, in infant and child)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

SMORODINTSEV, A.A.; BOYCHUK, L.M.; SHIKINA, Ye.S.; MESHALOVA, V.N.; LUGININA, N.M.; BYSTRYAKOVA, L.V.; PETROVA, M.N.

Reactogenic and immunogenic properteis of live tissue measles vaccine. Trudy Len.inst.epid.i mikrobiol. 19:3-20 '59. (MIRA 16:2)

1. Iz virusologicheskoy laboratorii (rukovoditel' - chlen-korrespondent AMN SSSR prof. A.A. Smorodintsev) Leningradskogo instituta epidemiologii, mikrobiologii i gigiyeny imeni Pastera.
(MEASLES—PREVENTIVE INOCULATION) (VACCINES)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

SMORODINTSEV, A.A.; BOICHUK, L.M.; SHIKINA, E.S.; BATANOVA, T.B.; BYSTRYAKOVA, L.V.; PERADZE, T.V.

Clinical and immunological response to live tissue culture vaccine against measles. Acta virol.Engl.Ed.Praha 4 no.4:201-204 Jl'60.

1. Virological Laboratory, The Pasteur Institute of Epidemiology, Microbiology and Hygiene, Leningrad; The Leningrad Scientific Research Institute of Pediatrics; and the Children's Infections Clinic of the Medical Pediatric Institute, Leningrad, U.S.S.R.
(MEASLES immunol)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYSTRYAKOVA, L.V.

Microflora of the upper respiratory tract in measles patients.
Pediatriia 38 no. 3:27-31 Mr '60. (MIRA 14:1)
(MEASLES) (RESPIRATORY ORGANS—MICROBIOLOGY)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYSTRYAKOVA, L.V.

Clinical characteristics of measles in infants. Pediatriia 38 no.6:66-71 Je '60. (MIRA 13:12)
(MEASLES) (INFANTS—DISEASES)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYSTRYAKOVA, L. V., Cand Med Sci -- "Clinical and bacteriological characteristics of measles in young children ~~of early age~~." Len, 1961. (Min of Health RSFSR. Len San-Hyg Med Inst) (KL, 8-61, 259)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

SMORODINTSEV, A.A.; BOYCHUK, L.M.; SHIKINA, Ye.S.; BYSTRYAKOVA, L.V.; PERADZE, T.V.

State of immunity in children vaccinated with a live vaccine against measles. Trudy Len.inst.epid.i mikrobiol. 22:7-20 '61. (MIRA 16:2)

1. Virusologicheskaya laboratoriya Leningradskogo instituta epidemiologii, mikrobiologii i gigiyeny imeni Pastera.
(MEASLES—PREVENTIVE INOCULATION) (IMMUNITY)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYSTRYAKOVA, L.V.; BATANOVA, T.V.

Characteristics of clinical reactions in children vaccinated with a live measles vaccine. Trudy Len.inst.epid.i mikrobiol. 22:21-31 '61. (MIRA 16:2)

1. Leningradskiy meditsinskiy pediatricheskiy institut (dir. - Ye.P. Semenova), Nauchno-issledovatel'skiy pediatricheskiy institut (dir. L.P. Kutina) i Leningradskiy institut epidemiologii, mikrobiologii i gigiyeny imeni Pastera (dir. M.Ya. Nikitin).
(MEASLES—PREVENTIVE INOCULATION)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

SMORODINTSEV, A.A.; BOYCHUK, L.M.; SHIKINA, Ye.S.; BYSTRYAKOVA, L.V.; PERADZE, T.V.

State of immunity in children vaccinated with live vaccine against measles. Vop. virus. 7 no. 1:59-67 Ja-F '61. (MIRA 14:4)

1. Virusologicheskaya laboratoriya Leningradskogo instituta epidemiologii, mikrobiologii i gigiyeny imeni L. Pastera.
(MEASLES)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

MOROZENKO, M.A.; BARYSHEVA, A.E.; TIMOFEYEVA, G.A.; BYSTRYAKOVA, L.V.; KALINNIKOVA, O.N.

Diagnostic value of the complement fixation reaction in viral respiratory infections of infants. Acta virol. (Praha)[Eng] 7 no.6:534-541 '63.

1. Institute of Experimental Medicine, U.S.S.R. Academy of Medical Sciences, and The Leningrad Institute of Pediatrics, Leningrad U.S.S.R.

(COMPLEMENT FIXATION TESTS)
(RESPIRATORY TRACT INFECTIONS)
(INFLUENZA) (MYXOVIRUS INFECTIONS)
(ADENOVIRUS INFECTIONS) (ECHO VIRUSES)
(COXSACKIE VIRUS INFECTIONS)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

KOZLOV, V.K., inzh., kandidat tekhn. nauk; BYSTROVSKAYA, N.A., red.

[Improving the engineering standard and lowering the cost of building dams and river hydroelectric power stations] Povyshenie tekhnicheskogo urovnia i snizhenie stoimosti stroitel'stva plotin i rechnykh gidrouzlov. Moskva, Stroiizdat, 1964. 158 p. (MIRA 17:11)

1. Nauchno-tekhnicheskoye obshchestvo stroitel'noy industrii SSSR.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

TSYTOVICH, Nikolay Aleksandrovich, prof., zasl. deyatel' nauki i tekhniki; BYSTROVSKAYA, N.A., red.; SHERSTNEVA, N.V., tekhn. red.

[Soil mechanics] Mekhanika gruntov. Izd.4., perer. i dop. Moskva, Gosstroiizdat, 1963. 636 p. (MIRA 17:2)

1. Chlen-korrespondent AN SSSR (for TSytovich).

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

ZENGER, Nikolay Nikolayevich; BYSTROVSKAYA, N.A., red.; YAKHONTOVA, T.D., tekhn. red.

[Characteristics of the construction of water pipes under the conditions of permafrost; practices used in Noril'sk] Osobennosti ustroistva vodoprovodov v usloviiakh vechnoi merzloty; opyt Noril'ska. Moskva, Stroiizdat, 1964. 97 p. (MIRA 17:3)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

L 18195-63 EWT(l)/EWP(q)/EWT(m)/BDS AFFTC/ASD/ESD-3 JD
ACCESSION NR: AP3005593 S/0074/63/032/008/0948/0966

AUTHORS: Boldy*rev, V. V.; By*stry*kh, L. I.

TITLE: Chemical action of ionizing radiations on inorganic crystals

SOURCE: Uspekhi khimii, v. 32, no. 8, 1963, 948-966

TOPIC TAGS: Ionizing radiation, crystals, topochemical reactions

ABSTRACT: Information on the chemical changes taking place in ion crystals is extracted from the extensive literature on the reactions of solids to ionizing radiations. Topics covered are: the effect of heat, light, and ionizing radiations; experimental irradiation methods; methods of studing the chemical changes produced by the irradiation of solids; chemical changes in inorganic ion crystals exposed to irradiation; and the effect of prior irradiation on the rate of topochemical reactions in solids.

ACCESSION NR: AP3005593

ASSOCIATION: Tomskiy politekhnicheskiy in-t im. S. M. Kirova (Tomsk Polytechnical Institute); Tomskiy gos. universitet im. V. V. Kuyby*sheva (Tomsk State University)

SUBMITTED: 00 DATE ACQ: 28 Aug 63 ENCL: 60
SUB CODE: CH, PH NO REF SOV: 055 OTHER: 117
Card 1/1

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BOLDYREV, V.V.; BYSTRYKH, L.I.

Chemical action of ionizing radiations on inorganic crystals. Usp.khim. 32 no.8:948-966 Ag '63. (MIRA 16:9)

1. Tomskiy politekhnicheskiy institut imeni Kirova i Tomskiy gosudarstvennyy universitet imeni Kuybysheva.

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BYSTRYKH, P., podpolkovnik

Tactical and fire coordination. Voen. vest. 40 no. 3:84-86 Mr '61. (MIRA 14:2)
(Artillery)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYSTRYKH, P., podpolkovnik

What experience teaches. Voen. vest. 41 no.9:87 S '61.
(MIRA 15:1)
(Night fighting (Military science)) (Antiaircraft artillery)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYSTRYKIN, B.L.

Prolonging the sound impulse. Avtom.,telem.i sviaz' no.6:30-31 Je '57. (MLRA 10:7)

1. Starshiy elektromekhanik Moskovskoy distantsii signalizatsii i svyazi Moskovsko-Ryazanskoy dorogi.
(Railroads--Signaling)

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BYSTRYUKOVA, O.V., inzh.; SEMENOVA, Y.P., inzh.; SPERANSKIY, A.N., red.; SOSINA, A.L., tekhn. red.

[Collection of inventions; manufacture of equipment for chemical industries] Sbornik izobretenii; khimicheskoe mashinostroenie. Moskva, TSentr. biuro tekhn.informatsii, 1961. 178 p. (MIRA 15:3)

1. Russia (1923- U.S.S.R.) Komitet po delam izobretenii i otkrytii.
(Chemical engineering—Equipment and supplies)

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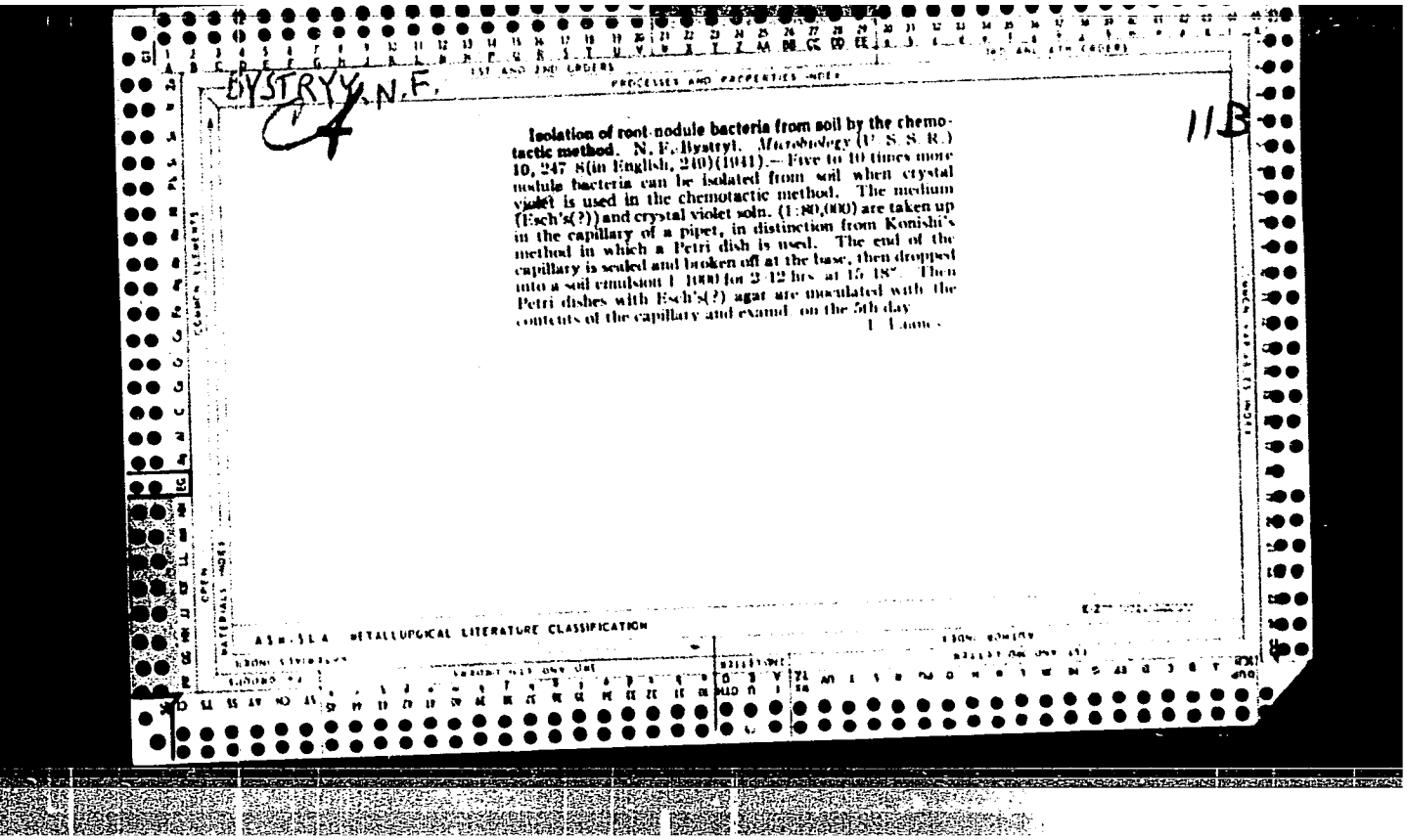

BYSTRYY, N.F.

Isolation of root-nodule bacteria from soil by the chemotactic method. N. F. Bystryi. *Microbiology* (U. S. S. R.) 10, 247-8(in English, 240)(1941).—Five to 10 times more nodule bacteria can be isolated from soil when crystal violet is used in the chemotactic method. The medium (Esch's(?)) and crystal violet soln. (1:80,000) are taken up in the capillary of a pipet, in distinction from Konishi's method in which a Petri dish is used. The end of the capillary is sealed and broken off at the base, then dropped into a soil emulsion (1:1000) for 2-12 hrs. at 15-18°. Then Petri dishes with Esch's(?) agar are inoculated with the contents of the capillary and examd. on the 5th day.

I. Lamm.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYSTRYY, N. F., ABASHIDZE, N. A. and BAKHTADZE, T. K.

"The Utilization of Meat Hydrolysates in the Production of a Bacteriophage", Works of the Tbilisi Scientific-Research Institute of Microbiology, Epidemiology, and Bacteriophages, Vol. 2, pp 103-106, 1950.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

E

Country : USSR
Category: Virology. Bacterial Viruses (Phages)

Abs Jour: Ref Zhur-Biol., No 23, 1958, No 105485.

Author : Bystryy, N.F.; Togoladze, Z. D.; Soboleva, V. A.
Inst : -
Title : Methods of Preparing Dry Lyophilic Bacteriophage.

Orig Pub: Sb. Bakteriofagiya. Tbilisi. Gruzmedgiz, 1957, 145-154.

Abstract: Dysentery phages prepared on Martin's or Hottinger's bouillon and desiccated by the lyophilic method in a Dolinov collector apparatus maintain their activity well for over two years. The dry preparation obtained in readily soluble in water. For the purpose of improving the taste qualities of the phage it was suggested that it be prepared on synthetic medium (the

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

Country : USSR E
Category: Virology. Bacterial Viruses (Phages)

Abs Jour: Ref Zhur-Biol., No 23, 1958, No 103405

composition of the medium is presented). Drying of the phage in a chamber desiccator at -35°-40° made it possible to obtain a dry mass with good physical properties; with this method of drying the phage titer did not decrease. -- Ya. I. Rautenshteyn.

Card : 2/2

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

Country : USSR E
Category: Virology. Bacterial Viruses (Phages)

Abs Jour: Ref Zhur-Biol., No 23, 1958, No 103516

Author : Bystryy, N.F.; Soboleva, V. A.
Inst : —
Title : The Characteristics of Wound Aerobic Phages

Orig Pub: Sb. Bakteriofagiya. Tbilisi, Gruzmedgiz, 1957, 379-385

Abstract: From sewage and material taken from the pharynx of patients with scarlet fever and from the pus of patients phages for streptococci and staphylococci were isolated. After several passages the staphylococcic phages showed not only an increase in titer but also an expansion of the spectrum of lytic action.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

Country : USSR E
Category: Virology. Bacterial Viruses (Phages)

Abs Jour: Ref Zhur-Biol., No 23, 1958, No 103516

Phagolysates subjected to lyophilic desiccation in a chamber apparatus at -18 to -20° for 16-18 hours with subsequent drying at room temperature in a vacuum for 14-16 hours showed a reduction in titer by two or three degrees. -- Ya. I. Rautenshteyn.

Card : 2/2

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYSTRZANOWSKA

BYSTRZANOWSKA, T.; KMITA, S.

Modern view on the physiology of hearing. Polski tygod.lek. 5 no.47-48: 1662-1677 27 Nov 50. (CLML 20:6)

1. Of the Otolaryngological Clinic of Lodz Medical Academy (Director Prof. H.Lewenfisz).

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYSTRZANOWSKA, T.

Therapeutic results in laryngeal tuberculosis. Gruzlica, Warszawa 18 no.2:236-246 Apr-June 1950. (CIML 20:7)

1. Of Chojna Municipal Hospital--Sanatorium (Director--M. Zierski M.D.) and of the Municipal Pediatric Sanatorium in Lagiewniki (Director--A. Margolisowa, M.D.) and of the Tuberculosis Consultation Center in Lodz (Director--J. Szustrowa, M.D.).

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYSTRZANOWSKA, T.;KMITA, S.

Modern concepts of physiology of taste and smell. Polski tygod. lek. 6 no. 37:1192-1198 10 Sept. 1951. (CLML 21:3)

1. Of the Otolaryngological Clinic (Director--Prof. Henryk Lewenfisz, M. D.) of Lodz Medical Academy.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYSTRZANOWSKA, T., doc. dr.

Organization of medical visiting service in rural areas. Zdrowie pub., Warsz. no.5:416-419 Sept-Oct 54.

1. Przewodniczaca Komisji Lacznosci ze wsia przy Panstwowym Szpitalu Klinicznym w Warszawie.
(PUBLIC HEALTH,
in Poland, visiting med. serv. in rural areas)
(RURAL CONDITIONS,
in Poland, visiting med. serv.)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYSTRZANOWSKA, Teofila,

Early diagnosis of neoplasms of the respiratory tracts. Wiadomosci lek. 8 no.5:119-208 May '55.

1. Klinika Otolaryngologiczna A.M. w Warszawie.
(RESPIRATORY TRACT, neoplasms
diag. early)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYSTRZANOWSKA, Teofila

Review of indications for tonsillectomy. Otolar. polska 10 no. 3-4:351-367 1956.

1. Z Kliniki Otolaryngologicznej A.M. w Warszawie Kierownik: prof. dr. H. Lewenfisz, W-wa, Okopowa 7a.
(TONSILS, surgery,
indic. (Pol))

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYSTRZANOWSKA, Teofila

Data on cancer of the larynx; analysis of the cases at the Laryngological Clinic of the Medical Academy in Warsaw. Otolar. polska 11 no.4:351-356 1957.

1. Z Kliniki Laryngologicznej A. M. w Warszawie p. o. kierownik: doc. Cichocka-Szumilin.
(LARYNX, neoplasms
statist. (Pol))

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYSTRZANOWSKA, Teofila

Treatment of cicatrical stenosis of the larynx. Otolar polska 12 no.1: 47-52 1958.

1. Z Kliniki Laryngologicznej A. M. w Warszawie p.o. Kierownika: doc. dr I. Cichocka-Szumilin.

(LARYNX, stenosis
cicatrical, enlargement by dilat. & plastic surg. (Pol))

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYSTRZANOWSKA, Teofila; LESZCZYNSKI, Stanislaw; SZNAJDERMAN, Marek.

Case report of bronchial foreign body. Polski tygod. lek. 13 no.26: 1006-1009 30 June 58.

1. (Z Kliniki Laryngologicznej, p.o. kierownika: doc. dr med. I. Cichocka-Szumilin, z Zakladu Radiologii Lekarskiej, kierownik: prof. dr nauk med. W. Zawadowski i z II Kliniki Chorob Wewnetrznych A. M. w Warszawie, kierownik: prof. dr med. D. Aleksandrow). Klin. Laryng. A.M. W-wa, ul. Nowogrodzka 59.

(BRONCHI, foreign bodies
of 7 years duration, case report (Pol))

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYSTRZANOWSKA, Teofila; KUS, Jan; OSUCH, Tadeusz; WOJNAROWSKA, Wanda

Effect of certain infectious diseases on the auditory system. Otolar.polska 14 no.3:329-334 '60.

1. Z Kliniki Laryngologicznej A.M. w Warszawie, Kierownik: prof. dr med. J.Szymanski; Z II Kliniki Chorob Zakaznych A.M. w Warszawie, Kierownik: prof. dr med. B.Kassur i z Zakladu Laryngologii S.D.L., Kierownik: doc. dr med. T.Bystrzanowska.
(COMMUNICABLE DISEASES compl)
(DEAFNESS etiol)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYSTRZANOWSKA, T.; KUS, J.; OSUCH, T.; WOJNAROWSKA, W.

On the effect of certain infectious diseases on the organ of hearing. Otolar.polska 14 no.4:443-454 '60.

(COMMUNICABLE DISEASES compl)
(DEAFNESS etiol)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYSTRZANOWSKA, Teofila; KUS, Jan; OSUCH, Tadeusz; WOJNAROWSKA, Wanda

Examination of the organs of hearing and equilibrium in acute bacillary dysentery. Przegl.epidem. 14 no.3:367-371 '60.

1. Z II Kliniki Chorob Zakaznych A.M. w Warszawie. Kier.: prof. dr med. B.Kassur. Z Kliniki Laryngologicznej A.M. w Warszawie. Kier.: prof. dr med. J.Szymanski. Z Zakladu Laryngologii S.D.L. w Warszawie, Kier.: doc. dr med. T.Bystrzanowska
(DYSENTERY BACILLARY physiol)
(HEARING TESTS)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYSTRZANOWSKA, Teofila; POPLAWSKI, Bohdan

Neurilemmoma of the larynx. Polski tygod. lek. 16 no.19:722-724 8 My '61.

1. Z Kliniki Laryngologicznej A.M. w Warszawie; kierownik: prof. dr med. J. Szymanski.

(NEURILEMMOMA case report) (LARYNX neopl)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYSTRZANOWSKA, Teofila; DOMANSKI, Remigiusz; STEC, Ryszard

A modified audiometer for children. Otolaryng. pol. 16 no.4:589-594 '62.

1. Z I Kliniki Laryngologii Studium Doskonalenia Lekarzy w AM w Warszawie Kierownik: doc. dr med. T. Bystrzanowska.
(AUDIOMETRY)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6"

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KOBUSZEWSKA-FARYNA Maria; BYSTRZANOWSKA, Teofila

Bilateral Warnin's tumor (cystadenolymphoma papilliferum bilaterale). Nowotwory 14 no.3:181-186 '64.

1. Z Zakładu Anatomii Patologicznej, Studium Dokształcania Lekarzy w Akademii Medycznej w Warszawie (Kierownik: doc. dr. med. M. Kobuszewska-Faryna) oraz z I Kliniki Laryngologii Studium Dokształcania Lekarzy w Warszawie (Kierownik: prof. dr. med. T. Bystrzanowska).

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYSTRZANOWSKA, Teofila

Some observations on Barre-Lieou syndrome. Otolaryng. Pol. 18 no.1:89-93 '64.

1. Z I Kliniki Laryngologii Studium Doksztalcania Lekarzy w Akademii Medycznej w Warszawie (Kierownik: doc. dr med. T. Bystrzanowska).

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYSTRZANOWSKA, Teofila; OSUCH, Tadeusz; POPLAWSKI, Bogdan; WOJNAROWSKA, Wanda

Further studies on the effect of bacillary dysentery on the organ of hearing. Otolaryng. Pol. 18 no.1:83-88 '64.

1. Z II Kliniki Chorob Zakaznych Akademii Medycznej w Warszawie (Kierownik: prof. dr med. B. Kassur) i z I Kliniki Laryngologii Studium Dikształcania Lekarzy w Akademii Medycznej w Warszawie (Kierownik: prof. dr med. T. Bystrzanowska).

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYSTRZEJEWSKI, W.

Sagging of telecommunication cables.

p. 149 (Przeglad Kolejowy Elektrotechniczny. Vol. 8, no. 5, May 1956. Warszawa, Poland)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2,
February 1958

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYSTRZEJEWSKI, W.

Long-distance cables on Czechoslovak railroads. p. 205.

PRZEGLAD KOLEJOWY ELEKTROTECHNICZNY. (Wydawnictwa Komunikacyjne) Warszawa, Poland, Vol. 11, no. 7, July 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 9, no. 1, Jan. 1960.

Uncl.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYSYY, M.K.; DAVIDENKO, I.M.

Successive inhibition from the effect of a secondary inhibitory stimulus. Zh. vyssh. nerv. deiat. Pavlov 13 no.3:495-500 '63.
(MIRA 17:9)

1. Fiziologicheskaya laboratoriya Cherkasskogo pedagogicheskogo instituta.

(REFLEX, CONDITIONED)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYSZEWSKI, S. (Engr.).:

Chlodnictwo w Obrocie i Przetworstwie Rybnym. (Refrigetation in the Working & Processing of Fish)., Warsaw, 1951, 76 pages.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6"

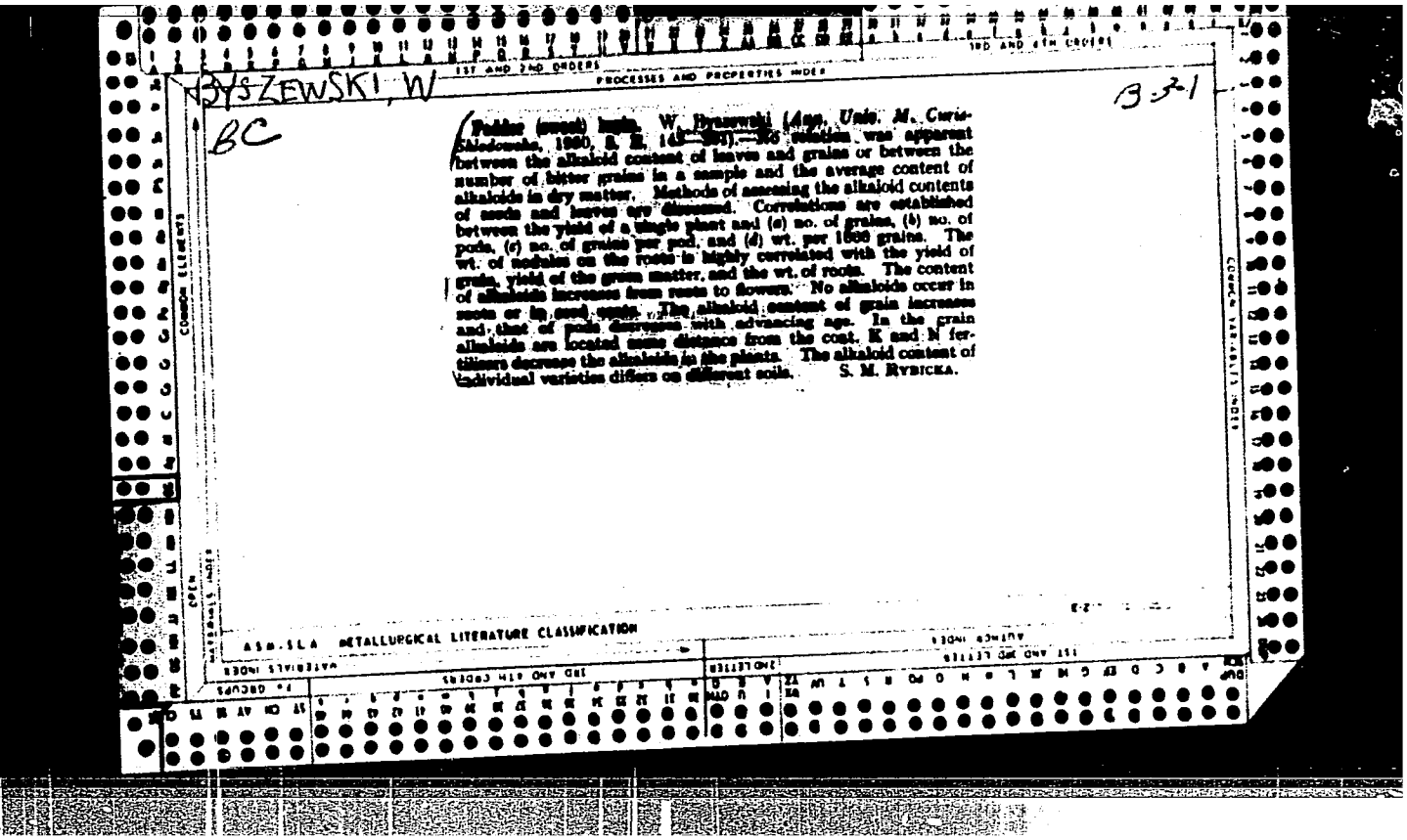
"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYSZEWSKI, W.(Engr.)

Chlodnictwo (Refrigeration). Section XV, Kalendarz Techniczny Przemyslu Spozywczego, Warsaw, 1949, pp 1607-1746.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6



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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BY [redacted], W.

"Exploitation and Conservation of Machines and Equipment in Establishments of the Meat Industry", p. 373, (GOSPODARKA MIESNA, Vol. 6, No. 12, Dec. 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 5, May 1955, Uncl.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BY [redacted], M.

"Exploitation and Conservation of Machinery in Plants of the Meat Industry; Refrigeration", p. 28, (GOSPODARKA MIESNA, Vol. 7, No. 1, Jan. 1955, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 5, May 1955, Uncl.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYSZEWSKI, W.; MELINSKI, Z.

Thermal insulation in refrigeration. p.8.

(BUDOWNICTWO PRZEMYSLOWE. Vol. 6, No. 6, June 1957. Warszawa, Poland)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 10, October 1957. Uncl.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYSZewski, W.

TECHNOLOGY

Periodicals: GAZETA CUKROWNICZA. Vol. 60, no. 10, Oct. 1958

BYSZEWSKI, W. The growing of sugar beets. p. 317.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 2, February 1959, Unclass.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6"

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BYSZEWSKI, Waclaw, mgr.inz.

One-level cold stores. Przegl techn no.47:9,10 23 N '60.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYSZEWSKI, Waclaw

The need and production of refrigerating machinery and equipment in Poland. Przegl techn no.41:10 12 O '60.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYSZEWSKI, Waclaw, mgr., inz.

Cooling equipment industry in Hungary. Przegl techn no.52:8 D '61.

1. Komitet do Spraw Techniki, Warszawa.

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BYSZEWSKI, Waclsw, mgr.inz.

Development of cooling and refrigeration in the retail food trade. Przegl techn no.20:9 20 My '62.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYSZEWSKI, Waclaw, mgr inz.

Cold stores built on the surface level. Przegl techn no.46:5,7 18 N '62.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYSZEWSKI, Waclaw, mgr inz.

"Selected calculation problems in the field of cooling" by engineer K.Gutkowski. Reviewed by Waclaw Byszewski. Przegl techn no.43:8 28 O '62.

(Gutkowski, k.)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6"

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BYSZEWSKI, Waclaw, mgr inz.

Cooling terminology. Przegl techn 84 no.20:8 19 My '63.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYSZEWSKI, Waclaw, mgr inz.

Refrigerating and freezing of food. Przegl techn [84] no.9: 9-10 3 Mr '63.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYSZEWSKI, Waclaw, mgr inz.

Eleventh International Congress of Refrigeration. Przegl techn 84 no.49:8 8 D '63.

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BYSZEWSKI, Waclaw, mgr inz.

Role of the cooling and refrigerating industry in technological progress. Przegl techn 85 no.7: 7,8 16 F'64.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYSZEWSKI, Waclaw, mgr inz.

Role of cooling engineering in the technological progress.
Pt. 2 Przegl techn 85 no. 13: Supplement: Przegl chlod
no. 3: 8 [illegible]

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

27312

P/046/60/005/011/001/018
D249/D303

26.2244

AUTHORS: Łabno, Leszek, Dąbek, Wacław, and Byszewski, Witold

TITLE: Neutron sensitive boron-coated thermopile

PERIODICAL: Nukleonika, v. 5, no. 11, 1960, 685 - 688

TEXT: A description is given of a simple neutron flux detector developed in the Institute of Nuclear Research, of small dimensions, which consist of a thermopile with the alternate thermoelements coated with B. The detector is insensitive to γ-radiation or changes in the ambient temperature and operates by measuring the heat produced by neutron absorption in the B coating. The thermopile is constructed of 36 chromel-coppel thermoelements, spaced at 20 mm intervals, made of 1 mm wide and 0.02 mm thick strips and welded together under an inert atmosphere with the alternate junctions covered by 1 mm beads of B. The elements are supported on a ceramic base, the junctions being situated coaxially in 3 planes perpendicular to the axis of the thermopile, with equal nos. of coated and

Card 1/3

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

P/046/60/005/011/001/018
D249/D303

Neutron sensitive boron-coated ...

bare junctions in each plane. The whole assembly is placed in an Al sheath. Only the changes in ambient temperature which occur over ~10 seconds will affect the instrument, since the decay of the output thermoelectric power has been found to have a time constant of 8 secs. Response of the thermopile varies linearly with the power level of the reactor, (1×10^{-11} mV/n. cm^2 sec), up to ~200 kW which corresponds to 10^{12} n/cm^2 sec. Sensitivity diminishes, thereafter, owing to the heating of uncoated junctions becoming, for example, 0.9×10^{-11} mV/n cm^2 at 2 MW (~10^{13} n/cm^2 sec). To test the instruments, neutron flux distribution in the 36/14 channel of the WWR-S reactor was measured by an absolute method using P and compared with the results given by the thermopile detector. Good agreement was obtained and the slight discrepancy is ascribed to the non-linearity of the thermopile. There are 3 figures and 4 references: 1 Soviet-bloc and 3 non-Soviet-bloc. The references to the English-language publications read as follows: G. Barbares, et al.: AECD - 2485; 1949, and AECD - 2975, 1950; T.R. Herold, Nucleoniks 13, no. 5, 64, 1955; T.A. Jaques, H.A. Ballinger, F. Wade,

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27312
S/046/60/005/011/001/018
D249/D303

Neutron sensitive boron-coated ...

Proc. IEE, 100, 110, 1953.

ASSOCIATION: Institute of Nuclear Research, Warsaw

SUBMITTED: July 1960

4

Card 3/3

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

27317
P/046/60/005/011/006/018
D249/D303

26.2223

AUTHORS: Byszewski, Witold, Aleksandrowicz, Jerzy, and Zabno, Leszek

TITLE: Temperature measurements of the WWR-S reactor fuel element wall

PERIODICAL: Nukleonika, v. 5, no. 11, 1960, 727 - 736

TEXT: A method of temperature measurement was developed using chromel-alumel thermocouples attached to the can of a fuel element. The temperature distribution along the fuel element were measured for a range of output power levels. The authors' aim was to investigate the possibility of increasing the power output of the reactor. The rather small dimensions of the fuel rod (10 mm diameter, 2 mm wall thickness) and a large temperature difference between the rod and the water added difficulty to setting up the measurements. Six symmetrical slots, 0.5 mm deep and 0.8 mm wide, were machined on the outside of the jacket to different lengths in order

Card 1/3

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Temperature measurements of ...

to accomodate the thermocouples. The thermocouples were placed in thin aluminum tubes and pressed into the slots. It was essential to achieve a good thermal contact between the joints of the thermocouples and the aluminum jacket, and for this purpose a special method of soldering was developed, but it was discovered later that fastening with a thin aluminum wire proved more satisfactory. The performance of the arrangement was first tested on a dummy rod with heater placed inside the tube. Two series of measurements were performed inserting the modified fuel element with the attached thermocouples into two different channels of the reactor. The power output of the reactor varied from 0 to 2 kW and the temperatures registered by the six thermocouples were noted, as well as the water temperatures of the external cooling circuit. The measurements were performed at two rates of flow of the cooling water: 960 and 660 m^3/hour. It was shown that the temperature difference between the wall of the fuel element and the water is proportional to the power output of the reactor at a constant flow of water; a maximum value observed was 27.4°C, in disagreement with the calcu-

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

Temperature measurements of ...

lated value of 50°C as supplied by the designers of the reactor. It is stated that in winter conditions the temperature of the jacket of the fuel element is well below the boiling point of water, but in hot weather there is not much room for increasing the output of the reactor. There are 10 figures and 2 tables.

ASSOCIATION: Instytut badań jądrowych, Warszawa, Oddział eksploatacji reaktora (Institute of Nuclear Research, Warsaw, Reactor Operation Division)

SUBMITTED: July, 1960

Card 3/3

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYSTRZEJEWSKI, Witold, inz.

Securing proper operation of the railway communication installations in winter conditions. Przegl kolej elektrotech 10 [i.e. 15] no.10:283-287 O '63.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

KORZHOVA, R.V.; BYTCHENKO, D.A., dotsent, zaveduyushchiy.

Unusual case of multiple otogenous abscesses of the brain. Vest.oto-rin. 15 no.4:78-79 Jl-Ag '53. (MLRA 6:9)

1. Klinika bolezney ukha, gorla i nosa Chernovitskogo meditsinskogo instituta. (Brain--Abscess)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

KAZANTSEVA, K.S.; BYTCHENKO, D.A., dotsent, zaveduyushchiy.

Subcutaneous emphysema of the neck following tonsillectomy. Vest.oto-rin. 15 no.4:83 Jl-Ag '53. (MLRA 6:9)

1. Oto-laringologicheskoye otdeleniye Chernovitskoy oblastnoy klinicheskoy bol'nitsy. (Tonsils--Surgery) (Neck--Diseases)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYTCHENKO, D.A.

Krause's free plastic surgery of the hypopharynx. Vest. oto-rin. 17 no.5:78-79 S-O '55. (MLRA-9:2)

1. Iz kliniki bolezney ukha, gorla, i nosa Chernovitskogo meditsinskogo instituta.

(PHARYNX, surgery
plastic surg. of hypopharynx)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYTCHENKO, D.A.;KORZHOVA, R.V.

Arterial pressure and pulse in otolaryngological surgery. Vest. oto-rin. 17 no.6:33-37 N-D '55. (MLRA 9:2)

1. Iz kafedry bolezney ukha, gorla, i nosa (zav.--dotsent D.A. Bytchenko) Chernovitskogo meditsinskogo instituta.

(BLOOD PRESSURE,
in otorhinolaryngol. surg.)
(PULSE,
in otorhinolaryngol. surg)
(SURGERY, OPERATIVE, blood in,
pressure & pulse in otorhinolaryngol. surg)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYTCHENKO, D.A., dotsent

Surgical tactics in otogenic abscesses of the brain [with summary in English] Vest. oto-rin. 19 no.1:78-81 Ja-F '57 (MLRA 10:4)

1. Iz kafedry bolezney ukha, gorla i nosa Chernovitskogo meditsinskogo instituta.

(BRAIN, abscess
otogenic, surg) (Rus)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYTCHENKO, D.A., dotsent

Clinical treatment of burns of the esophagus complicated by pyloric stenosis. Vrach.delo no.5:539-541 My '57. (MLRA 10:8)

1. Kafedra ukha, gorla i nosa (zav. - dots. D.A.Bytchenko) Chernovitskogo meditsinskogo instituta
(ESOPHAGUS--WOUNDS AND INJURIES)
(PYLORUS--DISEASES) (BURNS AND SCALDS)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYTCHENKO, D.A., dotsent

Pyosinus. Zhur. ush., nos. i gorl. bol. 20 no.4:26-28 Jl-Ag '60.
(MIRA 14:6)

1. Otorinolaringologicheskaya kafedra Chernovitskogo meditsinskogo instituta.

(NOSE, ACCESSORY SINUSES OF--DISEASES)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYTCHENKO, D.A., dotsent

Using nylon thread as suture material in otorhinolaryngology. Zhur. ush., nos. i gorl. bol. 20 no.6:85 N-D '60. (MIRA 15:2)

1. Otorinolaringologicheskaya klinika Chernovitskogo meditsinskogo instituta.

(SUTURES)

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BYTCHENKO, D.A., dotsent; GUREVICH, Ye.L.

Chaul therapy for scleroma of the vestibule of the nose. Vest. otorin. 22 no.6:87-88 '60. (MIRA 14:1)

1. Iz otorinolaringologicheskoy kafedry (zav. - dotsent D.A. Bytchenko) Chernovitskogo meditsinskogo instituta i rentgenovskogo kabineta (zav. - Ye.L. Gurevich) oblastnoy klinicheskoy bol'nitsy.
(RHINOSCLEROMA) (X RAYS—THERAPEUTIC USE)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYTCHENKO, Dmitriy Alekseyevich (Chernovtsy State Med Inst) for Doc Med Sci on the basis of [redacted] dissertation defended 24 Sep 59 in Council of Kiev Order of Labor Red Banner Med Inst im Academician Bogomolets, entitled "Treatment of scleroma patients with PASK /paraaminosalicylic acid/ and X-ray irradiation of the diencephalon inter-brain region (clinical experimental study)." (BMVISSO USSR, 1-61, 20)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYTCHENKO, D.A.

Blocking anesthesia in tonsillectomy. Zdravookhranenie 4 no. 2:51-52 My-Ap '61. (MIRA 14:4)

1. Iz kafedry bolezney ukha, gorla i nosa (zav. - doktor med.nauk D.A. Bytchenko) Kishinevskogo meditsinskogo instituta.
(TONSILS--SURGERY) (LOCAL ANESTHESIA)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYTCHENKO, D.A., doktor med.nauk

Rare benign tumors of the larynx and esophagus. Zhur. ush., nos. i gorl. bol. 21 no.2:71-72 Mr-Ap '61. (MIRA 14:6)

1. Kafedra bolezney ukha, gorla i nosa Chernovitskogo meditsinskogo instituta.

(ESOPHAGUS--TUMORS) (LARYNX--TUMORS)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

BYTCHENKO, D.A.

Action of PAS on the vessels and arterial pressure in an experiment. Farmakol. toksik. 26 no.3:306-309 My-Je '63 (17:8:2).

1. Kafedra otorinolaringologii (zav. - prof. D.A.Bytchenko) Kishinevskogo meditsinskogo instituta.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307930003-6

KARASHUROV, Ye.S., kand. med. nauk; TOSHINSKIY, I.I., zasluzhennyy vrach RSFSR; PUTYATIN, V.M., kand. med. nauk; SKIBA, V.M.; BYTDAYEV, Kh.I., student.

Echinococcosis of the lungs. Uch. zap. Stavr. gos. med. inst. 8:49-82 '63 (MIRA 17:7)

1. Kafedra obshchey khirurgii (zav. - prof. Yu.S. Gilevich) kafedra gospital'noy khirurgii (zav. - prof. P.M. Kovalevskiy) Stavropol'skogo meditsinskogo instituta (rektor-zasluzhennyy deyatel' nauki, prof. V.G. Budylin), khirurgicheskoye otdeleniye Stavropol'skoy krayevoy klinicheskoy bol'nitsy (glavnyy vrach Yu.P. Zotov) i khirurgicheskoye otdeleniye (zav. - zasluzhennyy vrach RSFSR I.I.Toshinskiy) Pyatigorskoy gorbol'nitsy (glavnyy vrach A.S. Partigulov).

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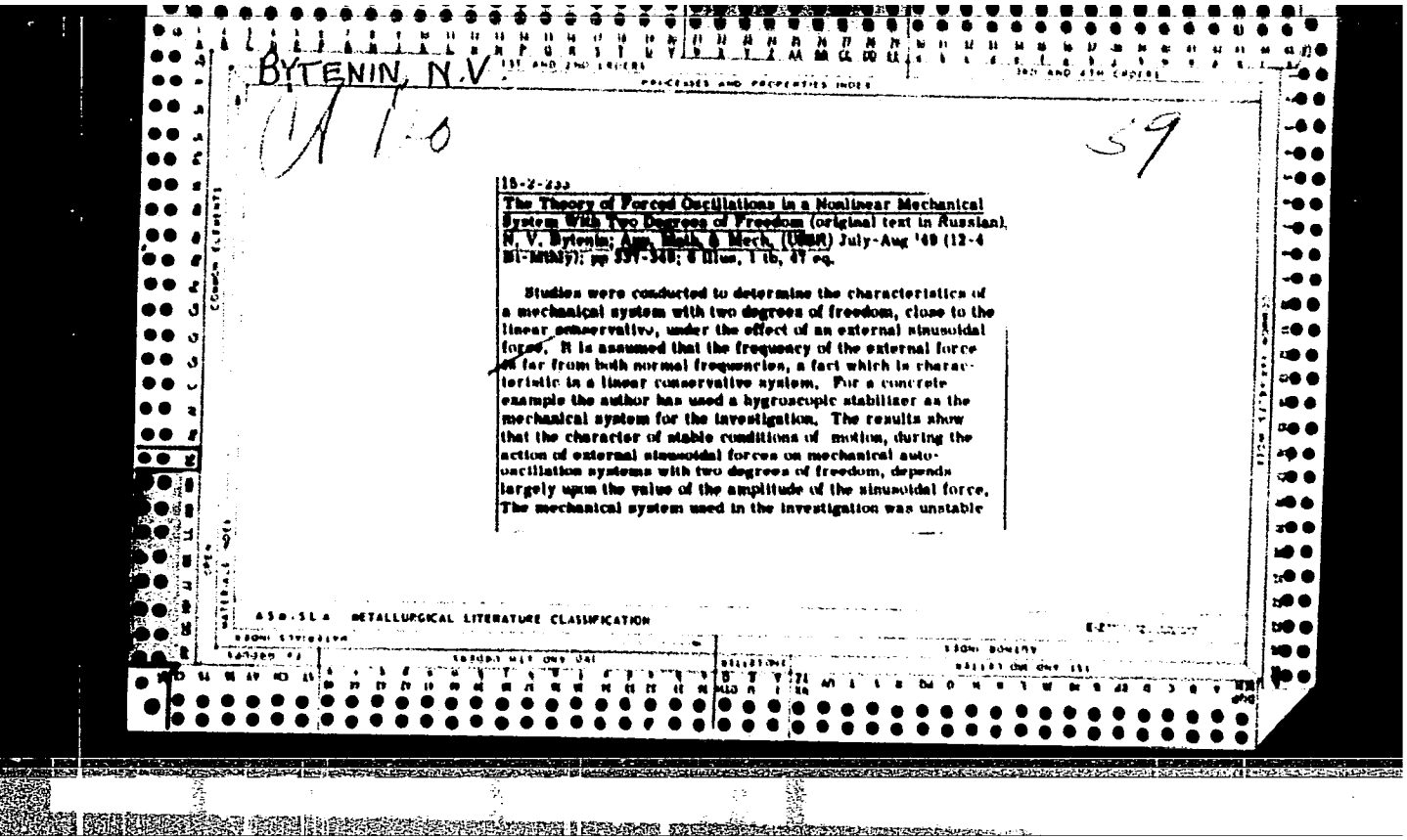

BYTENIN, N.V

15-2-433

The Theory of Forced Oscillations in a Nonlinear Mechanical System With Two Degrees of Freedom (original text in Russian). N. V. Bytenin; Ann. Math. & Mech. (USSR) July-Aug '49 (12-4 Bi-Mthly); pp 337-340; 6 illus, 1 tb, 17 eq.

Studies were conducted to determine the characteristics of a mechanical system with two degrees of freedom, close to the linear conservative, under the effect of an external sinusoidal force. It is assumed that the frequency of the external force is far from both normal frequencies, a fact which is characteristic in a linear conservative system. For a concrete example the author has used a hygroscopic stabilizer as the mechanical system for the investigation. The results show that the character of stable conditions of motion, during the action of external sinusoidal forces on mechanical auto-oscillation systems with two degrees of freedom, depends largely upon the value of the amplitude of the sinusoidal force. The mechanical system used in the investigation was unstable

A50-SLA METALLURGICAL LITERATURE CLASSIFICATION

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during the absence of a servomoment, which causes the auto-oscillations of the system. Such systems can adopt stable triharmonic, biharmonic, and periodic motions, depending upon the value of the amplitude of the external force and the importance of the parameters of the system. After the amplitude of the external force attains a specific value the system becomes unstable. It should be noticed that mechanical auto-oscillation systems, which are stable during the absence of the servomoment can, during the change of the amplitude of the external force, adopt only stable biharmonic and periodic motions. The increased value of the amplitude of the external force does not cause any loss to the stability of the mechanical system.

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BALANDIN, Yuriy Fedorovich; MARKOV, Vadim Georgiyevich; BRUK, B.I., kand. tekhn. nauk, retsenzent; BYTENSKIY, I.A., nauchnyy red.; NIKITINA, R.D., red.; SHISHKOVA, L.M., tekhn. red.

[Structural materials for power plants with liquid metal heat exchangers] Konstruktsionnye materialy dlia ustanovok s zhidkometallicheskimi teplonositeliami. Leningrad, Gos. soiuznoe izd-vo sudostroit. promyshl., 1961. 205 p. (MIRA 15:3)

(Corrosion resistant materials)
(Heat exchangers) (Liquid metals)

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ACCESSION NR: AT4007033 S/2598/63/000/010/0116/0130

AUTHOR: Glikman, L.A.; Deryabina, V.I.; Kolgatin, N.N.; By*tenskiy, I.A.; Teodorovich, V.P.; Teplov, N.S.

TITLE: Effect of gas-saturated layer on the strength and ductility characteristics of titanium alloys

SOURCE: AN SSSR. Institut metallurgii. Titan i yego splavy*, no. 10, 1963. Issledovaniya titanovy*kh splavov, 116-130

TOPIC TAGS: titanium alloy strength, titanium alloy ductility, VT-14 titanium alloy, VT-3-1 titanium alloy, VT-8 titanium alloy, gas saturated layer, titanium alloy

ABSTRACT: Contamination of titanium by air and its effect on strength and ductility was investigated following exposure of five alloys: VT-14 (Ti-Al-Mo-V), VT-3-1 (Ti-Al-Mo-Cr), VT-8 (Ti-Al-Mo) and Experimental Alloy No. 1 (4.95 Al, 2.18 V, 3.50 Sn, balance Ti), at 800-1100C for 0.5 to 4 hours. Microscopic examination showed that in air, above an O_2 concentration of 5%, oxygen diffuses into Ti and a superficial alpha-Ti phase forms which is characterized by increased hardness and reduced ductility. The strength of the specimens, however, was

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markedly reduced. Thus, at 1100C, yield point and strength decreased 40-60%, notch toughness decreased 70-80%, and ductility dropped to zero in about 4 hours. At 800C, on the other hand, there was little change. All alloy specimens investigated exhibited high notch sensitivity in both static and dynamic tests, especially those saturated at 800C. The original mechanical properties could be restored by removal of the gas-contaminated surfaces. Orig. art. has: 7 tables and 7 figures.

ASSOCIATION: Institut metallurgii AN SSSR (Metallurgical Institute AN SSSR)

SUBMITTED: 00 DATE ACQ: 27Dec63. ENCL: 00

SUB CODE: MM NO REF SOV: 003 OTHER: 001

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SHEVANDIN, Yevgeniy Mikhaylovich [deceased]; RAZOV, Igor' Aleksandrovich; BYTENSKIY, I.A., kand. tekhn. nauk nauchn. red.; NEBYLOV, V.M., kand. tekhn. nauk, retsenzent; YEROMITSKAYA, Ye.Ye., red.

[Cold brittleness and plasticity limit of metals in shipbuilding] Khladnolomkost' i predel'naia plastichnost' metallov v sudostroenii. Leningrad, Sudostroenie, 1965. 335 p. (MIRA 19:1)

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BUR'YAN, Yu.L.; BYTENSKIY, M.G.; DOLGOPOLOV, N.N.; EPSHTEYN, G.M.; YERMAN, B.I.

Gelatin extraction. Patent U.S.S.R. 77,271, Dec.31, 1949.
(CA 47 no.19:10262 '53)

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ROYZEN, I.S.; POZAMANTIR, A.G.; MEDVEDEVA, V.S.; BYTENSKIY, V.Ya.; STEPANOVA, N.A.; SAPOZHKOVA, R.A.

Investigating the danger of the explosion of acetylating mixtures. Bezop. truda v prom. 8 no.10:45-47 O '64. (MIRA 17:11)

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BYTEV, A.A.

Two methods for determining the index of refraction of glass. Fiz.v shkole 17 no.2:66-67 Mr-Ap '57. (MLRA 10:3)

1. Institut usovershenstvovaniya uchiteley, Brest.
(Refraction--Study and teaching)

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DITMAR, A.B., otv.red.; BOGACHEV, V.K., red.; BYTEV, O.N., red.; IVANOV, A.N., red.; KULEMIN, A.A., red.; YAKOVLEV, K.P., red.; PUKHOVTSEVA, A.N., red.; KOZHEMYAKINA, V.P., tekhn.red.

[Nature and economy of Yaroslavl Province] Priroda i khoziaistvo IAroslavskoi oblasti. IAroslavl', Iaroslavskoe knizhnoe izd-vo. Pt.1. [Nature] Priroda. 1959. 381 p. (MIRA 13:3)

1. Yaroslavl'. Gosudarstvennyy pedagogicheskiy institut.
(Yaroslavl Province--Geography)

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KACHINSKIY, Anatoliy Mikhaylovich; BYTEV, Aleksandr Alekseyevich; KIMBAR, Bronislav Antonovich; GORYANINA, L.E., red.

[Collection of problems to prepare for physics olympiads] Sbornik podgotovitel'nykh zadach k olimpiadam po fizike. Minsk, Narodnaia asveta, 1964. 136 p. (MIRA 18:1)

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BYTEVA, I.M.

Effect of the pH on the shape of ammonium dihydrophosphate crystals. Rost krist. 4:22-26 '64. (MIRA 17:8)

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S/564/61/003/000/007/029
D228/D304

AUTHOR: Byteva, I. M.

TITLE: Influence of the environmental pH and rotational speed of the crystal-carrier on the growth of ammonium dihydrophosphate crystals

SOURCE: Akademiya nauk SSSR. Institut kristallografii. Rost kristallov, v. 3, 1961, 296-299

TEXT: The author studied the growth of ammonium dihydrophosphate crystals from solutions with a pH of 0.5 - 6.3, the crystal-carrier being rotated at a speed of 150 - 3500 rev/min. According to A. A. Shternberg et al (Ref. 2: Avtorskoye svidetel'stvo no. 101179 of December 2, 1952), these crystals, which Shubkin [Abstracter's note: No reference given] assigns to the scalenohedral class of the tetragonal system, tend to become elongated along the z-axis during their growth from pure solutions. The necessary adjustments to the pH, measured by a glass-electrode potentiometer, were made by adding H_3PO_4 and NH_4OH. Below a pH of

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3.5--when the solution is saturated--the ratio of the dimensions of z-, x- and y-axes is about 3. At small rotational speeds there is no sign of tapering, but this becomes very apparent at 1200 rev/min. when the prism faces completely disappear, as has also been noted by N. N. Shaftal' (Ref. 4: Sb. Rost kristallov, v. 1, Izd. AN SSSR, 1957); the angle of tapering grows to 9° and more with subsequent increases in the rate of rotation. Other features observed at high rotational speeds include the tapering of subsidiary parasitic growths, the splitting of the central part of the crystal, and the formation of step-like accretions on tapered surfaces. Above a pH of 3.5, crystals rotated at 150 - 250 rev/min. grow more isometrically and withstand supersaturation more easily than is the case in a less alkaline environment. Raising the pH and speed of rotation also increases the growth-rate ratio of the pyramid and prism faces; at a pH of 6 and 3500 rev/min., the relative growth-rate of prism faces becomes so high that they disappear almost entirely. The author concludes that the influence of large rotational speeds on the growth of a crystal is related to its inability to pick up sufficient nutritious material from the solution, especially in those parts with a

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great linear velocity. Acknowledgement is made to N. N. Sheftal' for his supervision of this work. There are 7 figures, 2 tables and 5 references: 3 Soviet-bloc and 2 non-Soviet-bloc.

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